



## Safety Data Sheet

### 1. IDENTIFICATION

**Product Identifier:** Phenolphthalein Forensic Set

**Product Code(s):** PF30040

**Synonyms:** Mixture.

**Recommended Use:** For manufacturing, industrial, and laboratory use only. Use as a laboratory reagent.

**Uses Advised Against:** Not for food, drug, or household use.

**Supplier:** Pioneer Forensics, LLC  
6801 West 20th Street, Suite 204  
Greeley, CO 80634  
Phone: (970) 515-5420

**Emergency Phone Number:** For health emergency, call poison control: (800) 222-1222.

### 2. HAZARDS IDENTIFICATION

#### Component A (Water)

**Hazard Classifications:** This product is classified as not hazardous under OSHA's Hazard Communication Standard, 29 CFR 1910.1200 (HCS) and the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). However, all chemicals handled and used in the workplace should be treated with caution.

**Signal Word:** Not applicable.

**Hazard Statements:** Not applicable.

**Pictograms:** Not applicable.

**Precautionary Statements:**

**Prevention:** Not applicable.

**Response:** Not applicable.

**Storage:** Not applicable.

**Disposal:** Not applicable.

**Hazards Not Otherwise Classified:** Not applicable.

**Toxicity Statement:** Not applicable.

**Component B (Phenolphthalein)**

**Hazard Classifications:**

Acute Toxicity – Oral:	Category 4
Acute Toxicity – Dermal:	Category 4
Acute Toxicity – Inhalation:	Category 4
Specific Target Organ Toxicity (Single Exposure):	Category 1
Flammable Liquids:	Category 2

**Signal Word:** DANGER

**Hazard Statements:**

- Harmful if swallowed.
- Harmful in contact with skin.
- Harmful if inhaled.
- Causes damage to organs.
- Highly flammable liquid and vapor.

**Pictograms:**



**Precautionary Statements:**

**Prevention:**

- Wash thoroughly after handling.
- Do not eat, drink, or smoke when using this product.
- Wear protective gloves, eye protection, and face protection.
- Do not breathe fumes, mists, vapors, or spray.
- Use only outdoors or in a well-ventilated area.
- Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.
- Keep container tightly closed.
- Ground container and receiving equipment.
- Use explosion-proof electrical, ventilating, lighting, and transportation equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.

**Response:**

- If exposed: Call a poison center or doctor.
- If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth.
- If on skin (or hair): Wash with plenty of water. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse.
- If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
- In case of fire: Use water spray, dry powder, alcohol resistant foam, or carbon dioxide to extinguish.

**Storage:**

- Store locked up.
- Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents and container in accordance with local, regional, national, and international regulations.

**Hazards Not Otherwise Classified:** This product is toxic to humans. Primates are especially susceptible to the toxic effects of methanol, which are not reflected through toxicity data (see Section 11).  
May be harmful if vomited and enters lungs.

**Toxicity Statement:** This product consists of 1.27-2.53% ingredients whose acute toxicities are unknown (see Section 11).

**Component C (Hydrogen Peroxide)**

**Hazard Classifications:** Skin Corrosion/Irritation: Category 2  
Eye Damage/Irritation: Category 1

**Signal Word:** DANGER

**Hazard Statements:** Causes skin irritation.  
Causes serious eye damage.

**Pictograms:**



**Precautionary Statements:**

**Prevention:** Wash thoroughly after handling.  
Wear protective gloves, protective clothing, eye protection, and face protection.

**Response:** If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

**Storage:** Not applicable.

**Disposal:** Dispose of contents and container in accordance with local, regional, national, and international regulations.

**Hazards Not Otherwise Classified:** May pose a pressure hazard when sealed. Use vented containers to avoid hazardous pressure buildup.  
May be hazardous to the aquatic environment.

**Toxicity Statement:** Not applicable.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

**Component A (Water)**

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H <sub>2</sub> O	100

### Component B (Phenolphthalein)

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Ethanol	Ethyl Alcohol	64-17-5	C <sub>2</sub> H <sub>5</sub> OH	71.6
Methanol	Methyl Alcohol	67-56-1	CH <sub>3</sub> OH	3.56
Isopropanol	Isopropyl Alcohol	67-63-0	C <sub>3</sub> H <sub>7</sub> OH	3.96
Water	Water	7732-18-5	H <sub>2</sub> O	20.0
Sodium Hydroxide	Caustic Soda	1310-73-2	NaOH	0.801
Phenolphthalein	Phenolphthalein Indicator	77-09-8	C <sub>20</sub> H <sub>14</sub> O <sub>4</sub>	0.0801

### Component C (Hydrogen Peroxide)

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H <sub>2</sub> O	97.0
Hydrogen Peroxide	Hydrogen Dioxide	7722-84-1	H <sub>2</sub> O <sub>2</sub>	3.00

**Trade Secret Statement:** Not applicable.

## **4. FIRST AID MEASURES**

### **First Aid Procedures:**

- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.
- Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
- Skin Contact:** Wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if symptoms occur.
- Eye Contact:** Check for and remove contact lenses, if present and easy to do. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.
- General Advice:** Poison information centers in each state can provide additional assistance for scheduled poisons. Ensure that those providing first aid and medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Symptoms and Effects:** Irritation, coughing, drowsiness, dizziness, suffocation, hoarseness, shortness of breath, difficulty swallowing, ulceration of nasal tissue, nausea, vomiting, diarrhea, constipation, headache, unconsciousness, visual disturbances, metabolic acidosis, urine discoloration, ataxia, convulsions, hypermotility, dyspnea, corneal edema, abdominal pain, lacrimation, insomnia, numbness, chemical pneumonia, stomach distension, cerebral swelling, ocular clouding, blindness. Harmful or fatal if swallowed, inhaled, or absorbed through the skin. Causes irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May cause burns to the eyes, skin, respiratory tract, and gastrointestinal tract. May cause blindness or visual disturbances if absorbed into the blood stream. May be harmful if vomited and enters lungs. May affect the blood, brain, urinary system, liver, spleen, eyes, kidneys, respiratory system, cardiovascular system, stomach, pancreas, gastrointestinal tract, and central nervous system. Prolonged or repeated exposure may affect the eyes, liver, kidney, brain, cardiovascular system, blood, spleen, and heart; may cause adverse reproductive effects, mutagenic effects, metabolic effects, dermatitis, and cancer.

**Immediate Medical Care/  
Special Treatment:**

Immediate medical attention is required. Call a physician or poison control center immediately. Treat symptomatically.

## 5. FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Water spray, dry powder, alcohol resistant foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a solid (straight) water stream, as it may scatter and spread fire.

**Hazardous Combustion Products:** Carbon oxides, sodium oxides.

**Specific Hazards:** Highly flammable. Vapors may cause flash fire or ignite explosively. Burns vigorously if ignited easily by heat, sparks, or flames. Material may burn with an invisible flame. Sealed containers may explode when heated or involved in fire. Material is sensitive to static discharge. Vapors may travel considerable distance to source of ignition and flash back. Vapor from the solvent may accumulate in container headspace, resulting in flammability hazard. Fire or excessive thermal conditions may yield corrosive and/or toxic fumes.

**Special Protective Equipment/  
Precautions for Firefighters:** As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-pressure or pressure-demand breathing apparatus and full protective gear. Use water spray to cool unopened containers. Move containers from fire area, if you can do so without risk. This material may evaporate and leave a flammable residue if spilled. In the event of fire and/or explosion, do not breathe fumes.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Protective Equipment:** Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment (see Section 8). Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharge. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing.

**Emergency Procedures:** In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).

**Methods for Containment:** Eliminate all sources of ignition. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material where possible. Product should not be released to the environment. Contain and recover liquid when possible.

**Methods for Cleanup:** Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Residues from spills can be absorbed with acetone or alcohol. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

**Handling:** Do not handle, store, or open near an open flame, sources of heat, or sources of ignition. Wear personal protective equipment (see Section 8). Use only in well-ventilated areas. Provide sufficient air exchange and/or exhaust in work areas. Limit exposure to light. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Take precautionary measures against static discharge. To avoid ignition of vapors by static electricity discharge, all metal parts of the

equipment must be grounded. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and precautions listed for this product.

**Storage:**

Store in a cool, dry, ventilated area. Store in a segregated and approved area away from heat and incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep out of light. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Ground container and transfer equipment. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

<b>8. EXPOSURE CONTROLS AND PERSONAL PROTECTION</b>
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**Exposure Limits:**

**Component A (Water)**

Water: No information found.

**Component B (Phenolphthalein)**

Ethanol: ACGIH (STEL): 1000 ppm  
OSHA (PEL): 1000 ppm  
1900 mg/m<sup>3</sup>

Methanol: ACGIH (TWA): 200 ppm  
ACGIH (STEL): 250 ppm  
ACGIH (BEL): 15 mg/L  
OSHA (PEL): 200 ppm  
260 mg/m<sup>3</sup>

Isopropanol: ACGIH (TWA): 200 ppm  
ACGIH (STEL): 400 ppm  
ACGIH (BEL): 40 mg/L  
OSHA (PEL): 400 ppm  
980 mg/m<sup>3</sup>

Water: No information found.

Sodium Hydroxide: OSHA (PEL): 2 mg/m<sup>3</sup>  
ACGIH (TLV): 2 mg/m<sup>3</sup>

Phenolphthalein: No information found.

**Component C (Hydrogen Peroxide)**

Water: No information found.

Hydrogen Peroxide: ACGIH (TLV): 1 ppm  
OSHA (PEL): 1 ppm  
1.4 mg/m<sup>3</sup>

**Engineering Controls:**

Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal Protective Measures:**

**Eye/Face Protection:** Wear safety glasses with side shields or goggles. Maintain approved eye wash station and accessible rinse facilities in work area.

**Skin Protection:** Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.

**Respiratory Protection:** An air-purifying, NIOSH-approved respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or if any other circumstances exist where air-purifying respirators may not provide adequate protection.

**Specific Requirements for Personal Protective Equipment:** Ensure that glove material is compatible with this product. This information is available from glove manufacturers.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

*Unless otherwise indicated, all properties are given at standard temperature and pressure.*

**Component A (Water)**

**Appearance:** Colorless, transparent liquid.  
**Odor:** Odorless.  
**Odor Threshold:** No information found.  
**Formula Weight:** 18.01  
**pH:** 7.00  
**Melting/Freezing Point:** 0 °C  
**Boiling Point/Range:** 100 °C  
**Decomposition Temperature:** No information found.  
**Flash Point:** Not applicable.  
**Auto-ignition Temperature:** Not applicable.  
**Flammability:** Not flammable.  
**Flammability/Explosive Limits:** Not applicable.  
**Solubility:** Miscible with water, alcohol, acetone.  
**Vapor Pressure:** No information found.  
**Vapor Density:** No information found.  
**Specific Gravity:** 1.00 (Water = 1)  
**Evaporation Rate:** No information found.  
**Viscosity:** No information found.  
**Partition Coefficient (n-octanol/water):** No information found.

**Component B (Phenolphthalein)**

**Appearance:** Colorless, transparent liquid.  
**Odor:** Alcoholic.  
**Odor Threshold:** No information found.

<b>Formula Weight:</b>	Mixture.
<b>pH:</b>	No information found.
<b>Melting/Freezing Point:</b>	No information found.
<b>Boiling Point/Range:</b>	No information found.
<b>Decomposition Temperature:</b>	No information found.
<b>Flash Point:</b>	17.5 °C (estimated)
<b>Auto-ignition Temperature:</b>	No information found.
<b>Flammability:</b>	Flammable as a liquid.
<b>Flammability/Explosive Limits:</b>	No information found.
<b>Solubility:</b>	Miscible with water.
<b>Vapor Pressure:</b>	No information found.
<b>Vapor Density:</b>	No information found.
<b>Specific Gravity:</b>	0.83 (Water = 1)
<b>Evaporation Rate:</b>	No information found.
<b>Viscosity:</b>	No information found.
<b>Partition Coefficient (n-octanol/water):</b>	No information found.

**Component C (Hydrogen Peroxide)**

<b>Appearance:</b>	Colorless, transparent liquid.
<b>Odor:</b>	Slight, acrid.
<b>Odor Threshold:</b>	No information found.
<b>Formula Weight:</b>	34.01 (as H <sub>2</sub> O <sub>2</sub> )
<b>pH:</b>	No information found.
<b>Melting/Freezing Point:</b>	≈ 0 °C
<b>Boiling Point/Range:</b>	≈ 100 °C
<b>Decomposition Temperature:</b>	No information found.
<b>Flash Point:</b>	Not applicable.
<b>Auto-ignition Temperature:</b>	Not applicable.
<b>Flammability:</b>	Not applicable.
<b>Flammability/Explosive Limits:</b>	Not applicable.
<b>Solubility:</b>	Miscible with water, ether.
<b>Vapor Pressure:</b>	No information found.
<b>Vapor Density:</b>	1.1 (Air = 1)
<b>Specific Gravity:</b>	1.01 (Water = 1)
<b>Evaporation Rate:</b>	< 1 (Butyl Acetate = 1)
<b>Viscosity:</b>	No information found.
<b>Partition Coefficient (n-octanol/water):</b>	No information found.



## 10. STABILITY AND REACTIVITY

<b>Reactivity Data:</b>	Highly flammable. See Section 9. Corrosive. See Section 11.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Heat, flames, sparks, sources of ignition, light, incompatible materials.
<b>Incompatible Materials:</b>	Oxidizers, metals, halogens, isocyanates, inorganic salts, inorganic hydrides, organic materials, hydrazine, bases, acids, alkalis, reducing agents.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, sodium oxides.
<b>Possibility of Hazardous Reactions:</b>	May react vigorously, violently, or explosively if exposed to extreme thermal conditions or in contact with the incompatible materials listed above. Hydrogen peroxide decomposes into water and oxygen, which may cause a pressure hazard.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Component A (Water)

<b>Routes of Exposure:</b>	Inhalation, ingestion, skin contact, eye contact.
<b>Acute Effects:</b>	May cause irritation if inhaled.
<b>Chronic Effects:</b>	No information found.
<b>Toxicological Data:</b>	Not applicable.
<b>Symptoms of Exposure:</b>	Irritation, coughing, wheezing, shortness of breath.
<b>Carcinogenic Effects:</b>	No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### Component B (Phenolphthalein)

<b>Routes of Exposure:</b>	Inhalation, ingestion, skin contact, eye contact.
<b>Acute Effects:</b>	Harmful or fatal if swallowed, inhaled, or absorbed through the skin. Causes irritation to the eyes, skin, respiratory tract, and gastrointestinal tract. May cause blindness or visual disturbances if absorbed into the blood stream. May be harmful if vomited and enters lungs. May affect the blood, brain, urinary system, liver, spleen, eyes, kidneys, cardiovascular system, stomach, and pancreas.
<b>Chronic Effects:</b>	May cause central nervous system effects. May cause damage to eyesight. Prolonged or repeated exposure may affect the liver, kidney, brain, cardiovascular system, blood, spleen, and heart; may cause adverse reproductive effects, mutagenic effects, dermatitis, and cancer.
<b>Toxicological Data:</b>	Ethanol: LD <sub>50</sub> Oral, Rat: 7060 mg/kg LC <sub>50</sub> Inhalation, Rat: 124.7 mg/L 4 h

Methanol:	LD <sub>50</sub> Oral, Rat:	5628 mg/kg
	LD <sub>50</sub> Dermal, Rabbit:	15,800 mg/kg
	LC <sub>50</sub> Inhalation, Rat:	87.5 mg/L 6 h
Isopropanol:	LD <sub>50</sub> Oral, Rat:	5045 mg/kg
	LD <sub>50</sub> Dermal, Rabbit:	12,800 mg/kg
	LC <sub>50</sub> Inhalation, Rat:	72.6 mg/L 4 h
Water:	Not applicable.	
Sodium Hydroxide:	LD <sub>50</sub> Dermal, Rabbit:	1350 mg/kg
	Corrosive to eyes and skin based on animal data.	
Phenolphthalein:	Causes mutagenic effects and reproductive effects based on animal data.	

**Symptoms of Exposure:** Irritation, unconsciousness, visual disturbances, metabolic acidosis, drowsiness, dizziness, suffocation, hoarseness, shortness of breath, nervous system effects, cardiovascular effects, cough, nausea, vomiting, diarrhea, urine discoloration, abdominal pain, constipation, blindness.

**Carcinogenic Effects:** This product may cause cancer.

**ACGIH:** Isopropanol: A4 – Not classifiable as a human carcinogen

**IARC:** Isopropanol: 3 – Not classifiable to humans  
Phenolphthalein: 2B – Possibly carcinogenic to humans

**NTP:** Phenolphthalein: 2 – Reasonably anticipated to be a human carcinogen

### Component C (Hydrogen Peroxide)

**Routes of Exposure:** Inhalation, ingestion, skin contact, eye contact.

**Acute Effects:** Corrosive. May be harmful if swallowed, inhaled, absorbed through the skin, or exposed to the eyes. May cause burns to the eyes, skin, respiratory tract, and gastrointestinal tract. May affect the central nervous system, respiratory system, brain, blood, gastrointestinal system, and cardiovascular system.

**Chronic Effects:** Prolonged or repeated exposure may cause dermatitis, corneal damage, metabolic effects, respiratory effects, blood effects, mutagenic effects, and cancer.

**Toxicological Data:** Water: Not applicable.

Hydrogen Peroxide:	LD <sub>50</sub> Oral, Rat:	376 mg/kg
	LD <sub>50</sub> Dermal, Rat:	> 2000 mg/kg
	Causes skin and eye damage based on animal data.	

**Symptoms of Exposure:** Irritation, ataxia, convulsions, dyspnea, ocular clouding, corneal edema, coughing, lacrimation, insomnia, headache, numbness, ulceration of nasal tissue, chemical pneumonia, unconsciousness, nausea, vomiting, hypermotility, diarrhea, difficulty swallowing, stomach distension, cerebral swelling.

**Carcinogenic Effects:** May cause cancer based on animal data.

**ACGIH:** A3 – Confirmed animal carcinogen with unknown relevance to humans

## 12. ECOLOGICAL INFORMATION

### Component A (Water)

**Ecotoxicological Data:** Not applicable.

**Persistence and Degradability:** This product is readily biodegradable and unlikely to bioaccumulate.

**Environmental Effects:** Not applicable.

### Component B (Phenolphthalein)

**Ecotoxicological Data:**

Ethanol:		
EC <sub>50</sub> , Water Flea ( <i>Daphnia magna</i> ):		7.7 mg/L 48 h
LC <sub>50</sub> , Fathead Minnow ( <i>Pimephales promelas</i> ):		> 100 mg/L 96 h
Methanol:		
EC <sub>50</sub> , Water Flea ( <i>Daphnia magna</i> ):		> 10,000 mg/L 48 h
LC <sub>50</sub> , Fathead Minnow ( <i>Pimephales promelas</i> ):		> 100 mg/L 96 h
Isopropanol:		
LC <sub>50</sub> , Western Mosquitofish ( <i>Gambusia affinis</i> ):		>1400 mg/L 96 h
Water:		
	Not applicable.	
Sodium Hydroxide:		
LC <sub>50</sub> , Western Mosquitofish ( <i>Gambusia affinis</i> ):		125 mg/L 96 h
EC <sub>50</sub> , Water Flea ( <i>Ceriodaphnia dubia</i> ):		34.59 – 47.13 mg/L 48 h
Phenolphthalein:		
	No information found.	

**Persistence and Degradability:** Expected to be readily biodegradable.

**Environmental Effects:** May be harmful to aquatic organisms. Avoid release to the environment.

### Component C (Hydrogen Peroxide)

**Ecotoxicological Data:**

Water:		
	Not applicable.	
Hydrogen Peroxide:		
EC <sub>50</sub> , Water Flea ( <i>Daphnia magna</i> ):		2.4 mg/L 48 h
LC <sub>50</sub> , Rainbow Trout ( <i>Oncorhynchus mykiss</i> ):		22 mg/L 96 h

**Persistence and Degradability:** Readily biodegradable. Not expected to bioaccumulate.

**Environmental Effects:** May be hazardous to the aquatic environment. Avoid exposure to the environment.

## 13. DISPOSAL INFORMATION

**Disposal Instructions:** Dispose of this material and its container to an approved waste collection point. Minimize exposure to product waste (see Section 8). Do not dispose unused waste down drains or

into sewers. All wastes must be handled in accordance with local, state, and federal regulations.

**Contaminated Packaging:** Because containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

**Waste Codes:** U154 (US RCRA Hazardous Waste U List – Ignitable Waste)

## 14. TRANSPORT INFORMATION

**DOT:**

**UN Number:** UN1987

**Proper Shipping Name:** Alcohols, n.o.s. (Denatured ethanol)

**Hazard Class:** 3

**Packing Group:** II

**ERG Number:** 127

**Environmental Hazard Regulations:** No information found.

**Other Transport Precautions:** No information found.

## 15. REGULATORY INFORMATION

**U.S. Federal Regulations:**

**OSHA:** This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Inventory:** All components of this product are on the U.S. TSCA Inventory.

**U.S. EPCRA (SARA Title III):**

**Section 302:** No information found.

**Sections 311/312:**

Hazard Category	List (Yes/No)
Section 311 – Hazardous Chemical	Yes
Immediate Hazard	Yes
Delayed Hazard	Yes
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No

**Section 313:** No information found.

**CERCLA Reportable Quantities:** No information found.

**International Inventories:**

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	N/A
Canada	Domestic Substances List (DSL)	N/A
Canada	Non-Domestic Substances List (NDSL)	N/A
China	Inventory of Existing Chemical Substances in China (IECSC)	N/A
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	N/A
Europe	European List of Notified Chemical Substances (ELINCS)	N/A
Japan	Inventory of Existing and New Chemical Substances (ENCS)	N/A
Korea	Existing Chemicals List (ECL)	N/A
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	N/A

\*A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s).

**16. OTHER INFORMATION****Disclaimer:**

Pioneer Forensics, LLC provides the information in this Safety Data Sheet in the belief that it is reliable but assumes no responsibility for its completeness or accuracy. The physical properties reported in this SDS are obtained from literature and do not constitute product specifications. Pioneer Forensics, LLC makes and gives no representations or warranties with respect to the information contained herein or the product to which it refers, whether express, implied, or statutory, including without limitation, warranties of accuracy, completeness, merchantability, non-infringement, performance, safety, suitability, stability, and fitness for a particular purpose. No warranty against infringement of any patent, copyright or trademark is made or implied. This SDS is intended only as a guide to the appropriate handling of the material by a properly trained person. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. Accordingly, Pioneer Forensics, LLC assumes no liability whatsoever for the use of or reliance upon this information including results obtained, incidental or consequential damages, or lost profits.

**Issue Date:**

May 11, 2017

**Reason for Revision:**

Update of Section 1 over 08/07/2015 version.